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1 [Emerging applications: DRM: doesn't really mean digital copyright management](#)



L. Jean Camp

November 2002 **Proceedings of the 9th ACM conference on Computer and communications security**

Full text available: [pdf\(258.91 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Copyright is a legal system embedded in a larger technological system. In order to examine the functions of copyright it is critical to examine the larger technological context of copyright: analog media and printed paper in particular. The copyright system includes both the explicit mechanisms implemented by law and the implicit mechanisms resulting from the technologically determinant features of paper and print. In order to prevent confusion between the legal, technical, and economic elements ...

**Keywords:** DRM, DeCSS, copyright, design for values, ethics, fair use, intellectual property, science and technology studies

2 [Digital rights management for content distribution](#)



Qiong Liu, Reihaneh Safavi-Naini, Nicholas Paul Sheppard

January 2003 **Proceedings of the Australasian information security workshop conference on ACSW frontiers 2003 - Volume 21 CRPITS '03**

Full text available: [pdf\(224.63 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Transferring the traditional business model for selling digital goods linked to physical media to the online world leads to the need for a system to protect digital intellectual property. Digital Rights Management(DRM) is a system to protect high-value digital assets and control the distribution and usage of those digital assets. This paper presents a review of the current state of DRM, focusing on security technologies, underlying legal implications and main obstacles to DRM deployment with the ...

**Keywords:** DRM, digital content


3 [Future of intellectual property: How copyright became controversial](#)



Drew Clark

April 2002 **Proceedings of the 12th annual conference on Computers, freedom and**

## privacy

Full text available:  [pdf\(52.48 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

How did copyright become controversial? In a phrase, the Digital Millennium Copyright Act (DMCA). Although many of legal controversies that have swirled since its October 1998 passage trace their roots to other elements of copyright law, the DMCA created a new feature in copyright law that has crystallized why so many academics, librarians, computer users, and technology entrepreneurs object to what they regard as the overreaching nature of copyright law.

This signal feature ...

### 4 [Opportunities for watermarking standards](#)

Fred Mintzer, Gordon W. Braudaway, Alan E. Bell

July 1998 **Communications of the ACM**, Volume 41 Issue 7

Full text available:  [pdf\(672.37 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

### 5 [A large-scale contents publishing architecture based on reliable multicast](#)

Teruji Shiroshita, Osamu Takahashi, Shizuo Shiokawa

October 1997 **Proceedings of the 15th annual international conference on Computer documentation**

Full text available:  [pdf\(554.20 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

### 6 [Copyrights and access-rights: How DRM-based content delivery systems disrupt expectations of "personal use"](#)

Deirdre K. Mulligan, John Han, Aaron J. Burstein

October 2003 **Proceedings of the 2003 ACM workshop on Digital rights management**

Full text available:  [pdf\(416.68 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)


We set out to examine whether current, DRM-based online offerings of music and movies accord with consumers' current expectations regarding the personal use of copyrighted works by studying the behavior of six music, and two film online distribution services. We find that, for the most part, the services examined do not accord with expectations of personal use. The DRM-based services studied restrict personal use in a manner inconsistent with the norms and expectations governing the purchase and ...

**Keywords:** access control, content distribution, copyright, digital rights management, fair use, personal use, privacy

### 7 [Randomized instruction set emulation](#)

Elena Gabriela Barrantes, David H. Ackley, Stephanie Forrest, Darko Stefanović

February 2005 **ACM Transactions on Information and System Security (TISSEC)**, Volume 8 Issue 1

Full text available:  [pdf\(374.44 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Injecting binary code into a running program is a common form of attack. Most defenses employ a "guard the doors" approach, blocking known mechanisms of code injection. *Randomized instruction set emulation* (RISE) is a complementary method of defense, one that performs a hidden randomization of an application's machine code. If foreign binary code is injected into a program running under RISE, it will not be executable because it will

not know the proper randomization. The pape ...

**Keywords:** Automated diversity, randomized instruction sets, software diversity

8 Shopping models: a flexible architecture for information commerce

Steven P. Ketchpel, Hector Garcia-Molina, Andreas Paepcke


July 1997 **Proceedings of the second ACM international conference on Digital libraries**

Full text available:  pdf(1.49 MB) Additional Information: [full citation](#), [references](#), [citing](#), [index terms](#)

9 Oracle media server: providing consumer based interactive access to multimedia data

Andrew Laursen, Jeffrey Olkin, Mark Porter

May 1994 **ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference on Management of data**, Volume 23 Issue 2

Full text available:  pdf(1.05 MB) Additional Information: [full citation](#), [abstract](#), [citing](#), [index terms](#)

Currently, most data accessed on large servers is structured data stored in traditional databases. Networks are LAN based and clients range from simple terminals to powerful workstations. The user is corporate and the application developer is an MIS professional. With the introduction of broadband communications to the home and better than 100-to-1 compression techniques, a new form of network-based computing is emerging. Structured data is still important, but the bulk of data b ...

10 Innovation, management & strategy: Towards a framework for understanding the effectiveness of digital content exploitation strategies

Ernst-Jan Goedvolk, Edward Faber, René W. Wagenaar

March 2004 **Proceedings of the 6th international conference on Electronic commerce ICEC '04**

Full text available:  pdf(259.74 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Due to initiatives like Napster and Kazaa the business case for delivering protected digital content remains problematic. Still little is known about the effectiveness of content exploitation strategies. In this paper the literature on content protection, provisioning and usage is reviewed. Based on this review a causal framework is developed, which seeks to explain the effectiveness of content exploitation strategies. The paper ends with formulating a research agenda for studying content exploi ...

**Keywords:** content exploitation, content protection

11 A tentative approach to constructing tamper-resistant software

Masahiro Mambo, Takanori Murayama, Eiji Okamoto


January 1998 **Proceedings of the 1997 workshop on New security paradigms**

Full text available:  pdf(1.05 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

12 Digital rights management and fair use by design: DRM {and, or, vs.} the law

Pamela Samuelson

April 2003 **Communications of the ACM**, Volume 46 Issue 4

Full text available:  pdf(80.02 KB)  html(27.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#)

The main purpose of DRM is not to prevent copyright infringement but to change consumer

expectations about what they are entitled to do with digital content.

**13 Digital rights management & protecting the digital media value chain**

Marvin L. Smith

October 2004 **Proceedings of the 3rd international conference on Mobile and ubiquitous multimedia MUM '04**

Full text available:  [pdf\(95.20 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Digital media that is readily & illegally distributed over the Internet and related digital networks has posed major problems for the members of the digital media value chain. Ubiquitous mobile communication devices such as media capable handsets and PDAs have made the problem even larger. Technical approaches to controlling illegal distribution---commonly known as Digital Rights Management (DRM)---have been varied and inconsistent since the shift from analogue media to digital media; but in rec ...

**Keywords:** combined delivery, digital media, digital rights management (DRM), forward lock, open mobile alliance (OMA), rights expression language (REL), separate delivery



**14 Issues in the law of electronic commerce**

Richard L. Field


November 1997 **netWorker**, Volume 1 Issue 3

Full text available:  [pdf\(652.19 KB\)](#) Additional Information: [full citation](#), [index terms](#)



**15 Intrusion detection: Randomized instruction set emulation to disrupt binary code injection attacks**

Elena Gabriela Barrantes, David H. Ackley, Trek S. Palmer, Darko Stefanovic, Dino Dai Zovi  
October 2003 **Proceedings of the 10th ACM conference on Computer and communications security**

Full text available:  [pdf\(160.71 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Binary code injection into an executing program is a common form of attack. Most current defenses against this form of attack use a 'guard all doors' strategy, trying to block the avenues by which execution can be diverted. We describe a complementary method of protection, which disrupts foreign code execution regardless of how the code is injected. A unique and private machine instruction set for each executing program would make it difficult for an outsider to design binary attack code against ...

**Keywords:** automated diversity, emulation, information hiding, language randomization, obfuscation, security



**16 DRM experience: Analysis of security vulnerabilities in the movie production and distribution process**

Simon Byers, Lorrie Cranor, Dave Korman, Patrick McDaniel, Eric Cronin

October 2003 **Proceedings of the 2003 ACM workshop on Digital rights management**

Full text available:  [pdf\(285.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Unauthorized copying of movies is a major concern for the motion picture industry. While unauthorized copies of movies have been distributed via portable physical media for some time, low-cost, high-bandwidth Internet connections and peer-to-peer file sharing networks provide highly efficient distribution media. Many movies are showing up on file sharing



networks shortly after, and in some cases prior to, theatrical release. It has been argued that the availability of unauthorized copies directl ...

**Keywords:** digital rights management, file sharing, insider attacks, multimedia, physical security, policy

17 Security: Key-assignment strategies for CPPM

André Adelsbach, Jörg Schwenk

September 2004 **Proceedings of the 2004 multimedia and security workshop on Multimedia and security**

Full text available:  [pdf\(454.53 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

CSS, the first system to protect multimedia content on the new DVD medium failed badly, because both its encryption algorithm and its key management could easily be broken. A new industry initiative, the 4C Entity, LLC (founded by IBM, Intel, Matsushita and Toshiba), presents a more mature approach, called "Copy Protection for Prerecorded Media" (CPPM), which has already been adopted in DVD-Audio. A key-feature of CPPM is its advanced key-management, which allows for system renewability by revoki ...

**Keywords:** CPPM, content protection, device revocation, key-assignment, key-management

18 Document management: The lifecycle of a digital historical document: structure and content

A. Antonacopoulos, D. Karatzas, H. Krawczyk, B. Wiszniewski

October 2004 **Proceedings of the 2004 ACM symposium on Document engineering**

Full text available:  [pdf\(313.24 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes the lifecycle of a digital historical document, from template-based structure definition through to content extraction from the scanned pages and its final reconstitution as an electronic document (combining content and semantic information) along with the tools that have been created to realise each stage in the lifecycle. The whole approach is described in the context of different types of typewritten documents relating to prisoners in World-War II concentration camps a ...

**Keywords:** digital libraries, document analysis, document architecture, document engineering, historical documents, text enhancement

19 The digital dilemma

Randall Davis

February 2001 **Communications of the ACM**, Volume 44 Issue 2

Full text available:  [pdf\(111.23 KB\)](#)  [html\(37.96 KB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#), [review](#)

20 Broadcast and on-line cultural heritage: Copyright protection and management and a web based library for digital images of the Hellenic cultural heritage

Dimitris K. Tsolis, George K. Tsolis, Emmanouil G. Karatzas, Theodore S. Papatheodorou

November 2001 **Proceedings of the 2001 conference on Virtual reality, archeology, and cultural heritage**

Full text available:  [pdf\(358.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The main issue addressed in this paper is the design and implementation of an Advanced Digital Image Repository, which offers specialized services and a Dedicated User Interface for the protection and management of the Intellectual Property Rights of digitized material. In addition, another main research area of this contribution is the implementation of a Web Based Library, supported by advanced technologies, for the proper presentation of the digital cultural content. The work described in thi ...

**Keywords:** copyright protection, databases, digital web archives, information systems, java applets, watermarking

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## » Key

IEEE JNL IEEE Journal or Magazine

IEEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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- ☐ 1. **Secure communication between set-top box and smart card in DTV broadcast**  
Tianpu Jiang; Yongmin Hou; Shibao Zheng;  
Consumer Electronics, IEEE Transactions on  
Volume 50, Issue 3, Aug. 2004 Page(s):882 - 886  
Digital Object Identifier 10.1109/TCE.2004.1341695  
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- ☐ 2. **A novel bitmap analysis technique - test sensitivity Intensity bitmap**  
Chan Huan Gim;  
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- ☐ 3. **Test data decompression for multiple scan designs with boundary scan**  
Rajski, J.; Tyszer, J.; Zacharia, N.;  
Computers, IEEE Transactions on  
Volume 47, Issue 11, Nov. 1998 Page(s):1188 - 1200  
Digital Object Identifier 10.1109/12.736428  
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(652 KB) IEEE JNL
- ☐ 4. **Low-rate parallel scrambling techniques for today's lightwave transmission**  
Byeong Gi Lee; Seok Chang Kim;  
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Volume 33, Issue 4, April 1995 Page(s):84 - 95  
Digital Object Identifier 10.1109/35.372198  
[AbstractPlus](#) | Full Text: [PDF](#)(1316 KB) IEEE JNL
- ☐ 5. **Properties of guided scrambling encoders and their coded sequences**  
Fair, I.J.; Bhargava, V.K.; Wang, Q.;  
Information Theory, 1995. Proceedings., 1995 IEEE International Symposium on  
17-22 Sept. 1995 Page(s):285  
Digital Object Identifier 10.1109/ISIT.1995.535800  
[AbstractPlus](#) | Full Text: [PDF](#)(104 KB) IEEE CNF
- ☐ 6. **Recent advances in theory and applications of scrambling techniques for**

**transmission**

Byeong Gi Lee; Seok Chang Kim;  
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- ☐ **7. Multiple description coding of Images using phase scrambling**  
 Sadri, K.F.; Shirani, S.;  
 Acoustics, Speech, and Signal Processing, 2004. Proceedings. (ICASSP '04).  
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 Volume 3, 17-21 May 2004 Page(s):iii - 41-4 vol.3  
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- ☐ **8. Data embedding in scrambled digital video**  
 Pazarci, M.; Dipcin, V.;  
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 2003 Page(s):498 - 503 vol.1  
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- ☐ **9. Peak power reduction scheme based on subcarrier scrambling for MC-CDMA**  
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- ☐ **10. Experiments on fast cell search algorithm for Intercell asynchronous W-CDMA**  
 Higuchi, K.; Sawahashi, M.; Adachi, F.;  
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- ☐ **11. A Novel Algorithm of Spatial Scalability for Scrambled Video**  
 YuanZhi Zou; Wen Gao;  
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- ☐ **12. Random seed scrambling method for high density phase change optical**  
 Hoshizawa, T.; Kawamae, O.; Yasukawa, T.; Takahashi, M.; Katayama, Y.; Ta  
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[AbstractPlus](#) | Full Text: [PDF](#)(261 KB) IEEE CNF
- ☐ **13. On the spectral characteristics of continuous guided scrambling line code**  
 Fair, I.J.; Bhargava, V.K.; Wang, Q.;  
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- ☐ **14. Evaluation of the power spectral density of guided scrambling coded sec**  
Fair, I.J.; Bhargava, V.K.; Wang, Q.;  
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[AbstractPlus](#) | Full Text: [PDF\(876 KB\)](#) IEEE JNL
  
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Kanjannarin, W.; Amornraksa, T.;  
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- ☐ **18. Hadamard transform application in speech scrambling**  
Milosevic, V.; Delic, V.; Senk, V.;  
Digital Signal Processing Proceedings, 1997. DSP 97., 1997 13th International Conference on  
Volume 1, 2-4 July 1997 Page(s):361 - 364 vol.1  
Digital Object Identifier 10.1109/ICDSP.1997.628102  
[AbstractPlus](#) | Full Text: [PDF\(332 KB\)](#) IEEE CNF
  
- ☐ **19. Performance evaluation of the S(2) short scrambling code based multiuser asynchronous WCDMA systems**  
Fan Wu;  
Wireless Communications and Networking, 2003. WCNC 2003. 2003 IEEE Conference on  
Volume 1, 16-20 March 2003 Page(s):278 - 282 vol.1  
Digital Object Identifier 10.1109/WCNC.2003.1200360  
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- ☐ **20. Block level query scrambling algorithm within distributed multi-database**  
Vossough, E.; Getta, J.;  
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Digital Object Identifier 10.1109/DEXA.2001.953051  
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- ☐ **21. An analog scrambling scheme which does not expand bandwidth, Part II: time**  
Wyner, A.;  
Information Theory, IEEE Transactions on  
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- ☐ **22. Analog Full-Duplex Speech Scrambling Systems**  
Delgado, J.; Tribolet, J.;

Selected Areas in Communications, IEEE Journal on  
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☐ **23. Guided scrambling: a new line coding technique for high bit rate fiber op systems**

Fair, I.J.; Grover, W.D.; Kryzmien, W.A.; MacDonald, R.I.;  
Communications, IEEE Transactions on  
Volume 39, Issue 2, Feb. 1991 Page(s):289 - 297  
Digital Object Identifier 10.1109/26.76466

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☐ **24. Time sample speech scrambler which does not require synchronization**

Huang, F.; Stansfield, E.V.;  
Communications, IEEE Transactions on  
Volume 41, Issue 11, Nov. 1993 Page(s):1715 - 1722  
Digital Object Identifier 10.1109/26.241752

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☐ **25. A unified approach to scrambling filter design**

Chwan-Wen King; Ching-An Lin;  
Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and Si  
IEEE Transactions on]  
Volume 43, Issue 8, Aug. 1995 Page(s):1753 - 1765  
Digital Object Identifier 10.1109/78.403334

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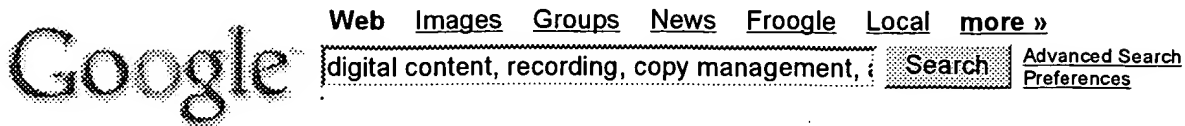
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**United States Patent Application: 0030174844**

... [0050] A hard disk **recording unit** 150 ... of the program data, **access requirements** may be transmitted along with the scrambled **content** to the **digital device** 110 ...  
appft1.uspto.gov/netacgi/nph-Parser?Sect1=PTO2& Sect2=HITOFF&p=4&u=%2Fnetahtml%2FPTO%2Fsearch-... - 91k - Supplemental Result - [Cached](#) - [Similar pages](#)

**United States Patent Application: 0050039212**

[0004] **Digital TV** poses a major concern to the program **content** providers as the ... The **conditional access unit** enables the operator to authorize subscriber ...  
appft1.uspto.gov/netacgi/nph-Parser?Sect1=PTO2& Sect2=HITOFF&p=1&u=%2Fnetahtml%2FPTO%2Fsearch-... - 175k - [Cached](#) - [Similar pages](#)  
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**agusthary's Multiply Site - Journal**

**access digital television** broadcasts from one or more broadcast suppliers. ... and with a **conditional access unit** 229 to supply the necessary control ...  
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File Format: PDF/Adobe Acrobat - [View as HTML](#)  
Us'rag Cameras or Sound **Recording**. Equipment in Court- unless the judge. or magistrate orders otherwise, ... **conditional access unit** added to provide ...  
www.camla.org.au/clb/ CLB%20-%20Volume%209,%20Issue%203.pdf - [Similar pages](#)

**Fresh Patents-Configurable cablecard patent apps**

... These **copy management** commands may also be transmitted along ... 0038] A hard disk **recording unit** 220 ... first specified sub-frequency to recover the **digital content**. ...  
www.freshpatents.com/ Configurable-cablecard-dt20041118ptan20040228175.php - 45k - Supplemental Result - [Cached](#) - [Similar pages](#)

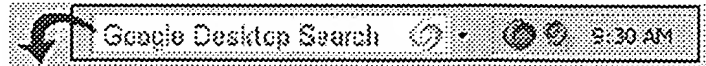
**EP1320006 Canal european software patent - Processing data - Gauss**

[0002] **Digital television** systems transmit television channels to the viewer ... [0146] A **content management** and protection system (CMPS) 2300 (not shown) ...  
gauss.ffii.org/PatentView/EP1320006 - 165k - [Cached](#) - [Similar pages](#)

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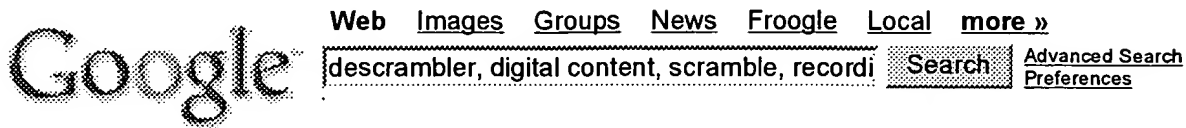
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**Web** Results 1 - 2 of 2 for descrambler, digital content, scramble, recording, reproduction, copy managen

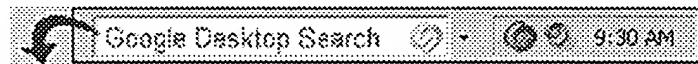
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United States Patent Application: 0030174844

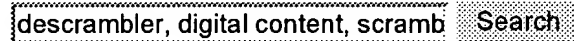
... different than the algorithm used to **scramble** and descramble ... top box 1340 comprises a **descrambler** IC 1360 ... in an unscrambled format and **digital content** 1348 in ...  
appft1.uspto.gov/netacgi/nph-Parser?Sect1=PTO2& Sect2=HITOFF&p=4&u=%2Fnetahtml%2FPTO%2Fsearch-  
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EP1286349

[0061] Such **content management** information or conditional **access** ... [0329] In the process of **recording content** to disk, illustrated in Figure 12, ...  
swpat.ffii.org/pikta/txt/ep/1286/349/ - 276k - [Cached](#) - [Similar pages](#)



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